No.



9900305

### THE UNIVERD SHAVES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

### Mousanto Company

THE PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED. PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS ROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN ICING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CITION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A PERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE WASTAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Gibson'

In Vestimonn Mecrest, I have hereunto set my hand and caused the seal of the Munt Nuciety Acotection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of Tebruary, in the year of our Lord two thousand.

Annaire Mrs

Commissioner Plant Variety Protection Office gretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE		The following statements are made in accord	lance with the privacy Act of		
AGRICULTURAL MARKETING SERVICE		1974 (5 U.S.C. 552a)			
SCIENCE DIVISION - PLANT VARIETY PROTECTION	OFFICE	Application is required in order to determine	if a plant variety protection		
APPLICATION FOR PLANT VARIETY PROTECTION	V CERTIFICATE	certificate is to be issued (7 U.S.C. 2421) In			
(Instructions and information collection burden statement of		until certificate is issued (7 U.S.C. 2426).	a manusi iz mana osiyana man		
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR	3. VARIETY NAME		
Morsauto Company		EXPERIMENTAL NUMBER			
HybriTech U.S., a unit of Monsanto Company		M94-1069	GIBSON		
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLA		
5012 N. Martillar Charact		444 44-0	PVPO NUMBER		
5912 N. Meridian Street		316-755-1250	9900305		
Wichita, Kansas 67204-1699		6. FAX (include area code)			
		B. FAX (metuae area coae)	F DATE		
		· ·	*		
		316-755-0072	1 5/21 <i>0</i> 9		
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bot	.!	G		
	o	Sincial y	FILING AND BXAMINATION FEE:		
Triticum aestivum	Gramineae				
9. CROP KIND NAME (common name)	-L <sub></sub>		S DATE / /		
SOFT RED WINTER WHEAT			R = 1 / 1 / 2		
			E		
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGA	NIZATION (corporation, p.	urtnership, association,etc.) (common name)	E CERTIFICATION FEE		
Corporation			V   0,0 00		
11. If INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	D DATE		
Delaware		1933	1 2/8/00		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS APPLIC	ATION AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)		
Dr. Blaine Johnson	Ms. Chris	Mr. Robert Bruns	970- 532-9840		
806 N. Second Street AN	ND .	806 N. Second Street			
PO Box 1320		PO Box 30	15. FAX (include area code)		
Berthoud, Colorado 80513		Berthoud, Colorado 80513			
		970-532-3721	970-532-2035		
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (foll					
a. X Exhibit A. Origin and Breeding History of the Variety	<i>'</i>				
b. X Exhibit B. Statement of Distinctness	•				
c. X Exhibit C. Objective Description of the Variety					
d. X Exhibit D. Additional Description of the Variety					
e. X Exhibit E. Statement of the Basis of the Applicant's O					
f. X Voucher Sample (2,500 viable untreated seeds, or, for tuber p	opagated varieties veification	that tissue culturé will be deposited and maintained in a	public repository)		
g. X Filing and Examination Fee (\$2,450), made payable to					
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLI	D BY VARIETY NAME O	1	ection 83{a) of the Plant Variety Protection Act)		
X YES (if "yes", answer items 18 and 19 below)		NO (if 'no", go to item 20)			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMI GENERATIONS?	TED AS TO NUMBER OF	19. IF 'YES' TO ITEM 18, WHICH CLASSES OF	PRODUCTION BEYOND BREEDERS SEED?		
X YES	NO	X FOUNDATION X REGISTE	RED X CERTIFIED		
· · · · · · · · · · · · · · · · · · ·					
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEE		1 .	S. OR OTHER COUNTRIES?		
YES (iF "YES", give names of countries and dates)	X	NO			
		•			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be fur	nished with the application	and will be replenished upon request in accordance	with such regulations as may be		
applicable, or for a tuber propagated variety a tissue culture will be deposited in a p	oublic repository and mainta	ined for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tub		(s) that the variety is new, distinct, uniform, and sta	ble as required in		
Section 41, and is entitled to protection under the provisions of Section 42 of the PI	Ť				
Applicant(s) is(are) informed that false representation herein can jeopardize protection	on and result in penalties.	· · · · · · · · · · · · · · · · · · ·			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner	r{s})		
Blame Johnson					
NAME (Please print Salype)		NAME (Please print or type)			
Dr. Blaine Johnson					
CAPACITY OR TITLE DAT	TE .	CAPACITY OR TITLE	DATE		
Technical Director U.S.A. Breeding Research	4 Amil 104	9			

# Exhibit A. Origin and Breeding History of Gibson

Gibson is a soft red winter wheat developed by AgriPro Seeds Inc. at Lafayette, IN. In the 1987 spring greenhouse at Brookston IN a Brazilian triticale PFT7882 was crossed to an Agripro experimental wheat line SW84-157 (later registered as AgriPro Hancock). The subsequent seed was planted in a 1988 fall greenhouse and crossed to SW85-81 (later registered as AgriPro Sawyer) and was assigned the experimental population testing in 1994 and one selection based upon height, maturity and foliar disease received the designation M94-1069. Advanced yield testing was conducted at eight locations in 1995, and 1996. Gibson continued to advance because of yield, early maturity, and very good test weight. In 1997 and 1998 replicated tests have been conducted in Maryland, Ohio, Indiana, Illinois, Arkansas, Kentucky, and Missouri. F1, F2, F3, and F4 bulk populations were grown in the Brookston IN area with selection pressure for short height, early maturity, and heavy test weight. From the bulk F4 population 62 heads were randomly selected for desirable characteristics and planted as individual head rows in 1993. Six of the head rows were selected on maturity, height, and green leaf duration to be advanced to preliminary yield trials.

In 1997, 336 head-rows were grown in Berthoud, Colorado and evaluated for phenotypic similarity. Two hundred nine rows were selected and bulk harvested to be grown in Berthoud, Colorado as a 4 acre Breeders Seed increase in 1998. This Breeders Seed produced 6,575 pounds of Foundation seed.

Gibson has been uniform and stable since 1997. Less than 0.8% of the plants were rogued from the initial Breeders Seed increase in 1997. Approximately 85% of the rogued variant plants were taller height wheat plants (6 to 15 cm's), 2% were a green plant color at boot stage and 3% were awned wheat plants. Up to 1% variant plants may be encountered in subsequent generations.

### Exhibit B. Statement of Distinctness

Gibson most closely resembles the soft red winter wheat 'Hancock'. However, it can be easily distinguished by the following morphological characteristics:

- Gibson has a blue-green plant color at boot stage (R.H.S. Color Chart No. 122B; Berthoud, Colorado 1996, 1997, 1998). Hancock has a green plant color at boot stage (R.H.S. Color Chart No. 137B; Berthoud, Colorado 1996, 1997, 1998).
- Gibson is an awnletted soft winter wheat (Berthoud, Colorado 1996, 1997, 1998). Hancock is an awned soft winter wheat (Berthoud, Colorado 1996, 1997, 1998).
- Gibson has yellow anthers (Berthoud, Colorado 1996, 1997, 1998). Hancock has purple anthers (Berthoud, Colorado 1996, 1997, 1998).
- Gibson has a tapering head shape (Berthoud, Colorado 1996, 1997, and 1998). Hancock has a strap to clavate head shape (Berthoud, Colorado 1996, 1997, 1998).
- Gibson has a white coleoptile (Berthoud, Colorado 1996, 1997, 1998). Hancock has a purple coloeptile (Berthoud, Colorado 1996, 1997, 1998).

#### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION BELTSVILLE, MARYLAND 20705

#### OBJECTIVE DESCRIPTION OF VARIETY

WHEAT	(Trincum Spp.)
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
HybriTech U.S., a unit of Monsanto Company	PVPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code 5912 N. Meridian Street Wichita, Kansas 67204-1699	DESIGNATION  Gibson
Place the appropriate number that describes the varietal character of this variety is place a zero in the first box when number is either 99 or less or 9 or less respective minimum of 100 plants. Comparative data should be determined from varieties standard may be used to determine plant colors; designate system used. Please answer all questions for your variety; lack of response may delay progress	rely. Data for quantitative plant characters should be based on a entered in the same trial. Royal Horticultural Society or any recognized
1. KIND:	
1 !=Common 2=Durum 3=Club 4=Other	(specify)
2. VERNALIZATION:	
2 1=Spring 2=Winter 3=Other (specify)	
3. COLEOPTILE ANTHOCYANIN:	
1	
4. JUVENILE PLANT GROWTH:	
2 1=Prostrate 2=Semi-erect 3=Erect	
5. PLANT COLOR (boot stage):	
3 = Yellow-Green 2 = Green 3 = Blue-Green	
6. FLAG LEAF (boot stage):	
1   Erect 2 = Recurved	
2   1 = Not Twisted 2 = Twisted	
7. EAR EMERGENCE:	
0 0 Number of Days Earlier Than	qual to Patterson *
0 0 Number of Days Later Than	·
8. ANTHER COLOR:	
1 = YELLOW 2 = PURPLE	
9. PLANT HEIGHT (from soil to top of head, excluding awns):	
0 0 cm Taller Than	*
	atterson *
* Relative to a PVPO-Apprved Commercial Variety Grown in t	ne Same Trial

15. INS	ECT: (0=Not Tested; 1=Susceptible; PECIFY BIOTYPE (where needed)	2=Resistant;	3=Intermediate; 4=To	olerant)		
0	Hessian Fly (Mayetiola destructor)		Other (specify)			
0	Stem Sawfly (Cephus spp.)		Other (specify)			
0	Cereal Leaf Beetle (Oulema melanopa)		Other (specify)			•
0	Russian Aphid (Diuraphis noxia)		Other (specify)			
0	Greenbug (Schizaphis graminum)		Other (specify)			
0	Aphids					
16. ADD	OITIONAL INFORMATION ON ANY ITEM A	BOVE, OR GEN	ERAL COMMENTS:		-	
_						



### M94-1069

#### Soft Red Winter Wheat

Parentage PFT 7882 / Hancock // Sawyer Experimental Number:

POSITIONING: Ohio Valley

Early Heading for double crop area

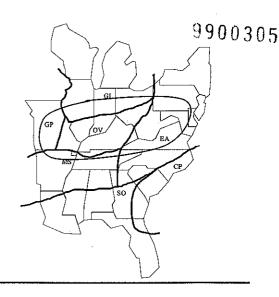
Lacks PM resistance for east coast

Lacks winter survíval to go into upper greal lakes

COMMENTS:

Excellent standability but not big heavy straw

Had talls in this years crops

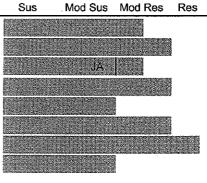


Great Lakes Region			Ohio Valley Region						
						•	Ov	erall	Overall
Variety	Loc	96	Loc	97	Loc	98	Loc	Avg.	Loc 96 Loc 97 Loc 98 Loc Avg.
M94-1069					7.	56	7	56	4 53 4 53
Mason					7	51	, 7	51	4 50 4 50
M94-1069	4	39	6	73	7	56	17	58	3 52 4 76 4 53 11 61
Patterson	4	47	6	68	7	50	17	56	3 54 4 66 4 49 11 57
M94-1069	4	39	7.	72	7	56	18	58	3 52 4 76 4 53 11 61
Pioneer 2552	4	43	7	74	7	65	18	64	3 59 4 77 4 60 11 66
M94-1069			7	72	10	60	17	65	4 76 6 57 10 65
Foster			7	74	10	59	17	65	4 76 6 57 10 65

AGRONOMICS		Sus	. Mod Sus	Мо
λΛΛΑ/	Loof Plotoh:			

Туре: Awnless SRWW Height: = Foster Medium Heading: = Patterson Early Maturity: = Patterson Early W. Hardiness: Very good OV Good - GL Test Weight: = Foster Very Good Straw St: = Foster Excellent Med - Large Seed Size: **34 TKW** Vernalization: Spring Freeze 4 Rating Average

Leaf Blotch: Glume Blotch: Leaf Rust: Stem Rust: Pow. Mildew: SBM Virus WSS Virus BYD Virus: Hessian Fly: Head Scab:



**PATHOLOGY** 

				Franciscost Dentis	
_				<u> </u>	
	-	•	. •		

			Experim	ient Rankin	ıg		
	QUALITY		98	97	96	Site	
	M94-1069	Caldwell	13	23	22	Findlay OH	
Wheat Protein,%:	11.5	10.0	13	13	13	Woodburn IN	
Flour Protein,%:	10.1	8.4	2	4	20	Lafayette IN	
Milling	В	Α	10	3		Pana IL	
Break Flour,%:	39.6	44.0	7	2		Ansonia OH	
Total Flour,%:	68.9	69.3	7	4	4	St. Jacobs IL	
Baking:	С	В	11	5	28	Sullivan IN	
Comments: Data	1995-97		6	2	2	Carmi IL	
			15	4	5	Columbia MO	
			13	40		Beletsville MD	
			12			Pop Hill MD	
			5		5	Jonesboro AR	11/17/0

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## Exhibit D. Additional Description of Gibson

Gibson is a soft red winter wheat bred and developed by Agripro Seeds, Inc. Gibson was derived from a Brazilian triticale PFT7882 that was crossed to an Agripro experimental wheat line SW84-157. Gibson has excellent test weight, early maturity, medium plant height, very good straw strength, and good winter survival. Gibson has intermediate resistance to powdery mildew, and soil borne mosaic and is tolerant to wheat spindle streak, septoria tritici, leaf rust and stem rust. Milling is very good and baking properties are good.

Juvenile growth habit is semierect. Plant color at boot stage is blue green. Anther color is yellow. The flag leaf at boot stage is erect and twisted. Auricle anthocyanin and auricle hairs are present. Waxy bloom is present on the stem, flag leaf sheath and head. The head is tapering, middense and awnletted. The glume at maturity is medium in length and width. Shoulder shape on the glume is oblique with an obtuse beak. Seed shape is ovate. Brush length is midlong. Seed crease width is narrow and depth is shallow.

Gibson is adapted to the double crop areas of Ohio, Illinois, Indiana, Kentucky, and Missouri.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paperwood	n accordance with the Privacy Act of rk Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2- until certificate is issued (7 U.S.C. 2426	421). Information is held confidential
1. NAME OF APPLICANT(S)	TEMPORARY DESIGNATION     OR EXPERIMENTAL NUMBER	3. VARIETY NAME
HybriTech U.S., a unit of Monsanto Company	M94-1069	GIBSON
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
5912 N. Meridan Street	316-755-1250	316-755-0072
Wichita, Kansas 67204-1699	7. PVPO NUMBER	
Does the applicant own all rights to the variety? Mark an "X" in appropriate to the variety.		
9. Is the applicant (individual or company) a U.S. national or U.S. based of	ompany?	X YES NO
If no, give name of country  10. Is the applicant the original owner?  YES  X	NO If no, please answer one of the i	following:
a. If original rights to variety were owned by individual(s), is (are) the o	riginal owner(s) a U.S. national(s)?	
☐ YES ☐ I	NO If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the	e original owner(s) a U.S. based compan	<b>y?</b>
X YES 1	NO If no, give name of country	
11. Additional explanation on ownership (if needed, use reverse for extra s	pace):	
*Please see following page.		
	etas — ye	

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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(Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

STD-470-E (07-97) (Destroy previous editions).

Electronic version designed using WordPerfect InForms by USDA-AMS-IMB.

## Exhibit E. Statement of the Basis of Applicant's Ownership

Curtis Beazer, an employee of Agripro Seeds, Inc, developed the variety for which Plant Variety Protection is hereby sought. By agreement between employees and Agripro Seeds, Inc., all rights to any invention, discovery, or development made by the employee while employed by Agripro Seeds, Inc., were assigned to Agripro Seeds, Inc., with no rights of any kind pertaining to 'Gibson' being retained by the employees.

By contractual agreement the variety 'Gibson' is currently owned by HybriTech U.S.; a unit of Monsanto Company and licensed to Agripro Seeds, Inc. for commercial use.

01 Mar 2000 pa letter